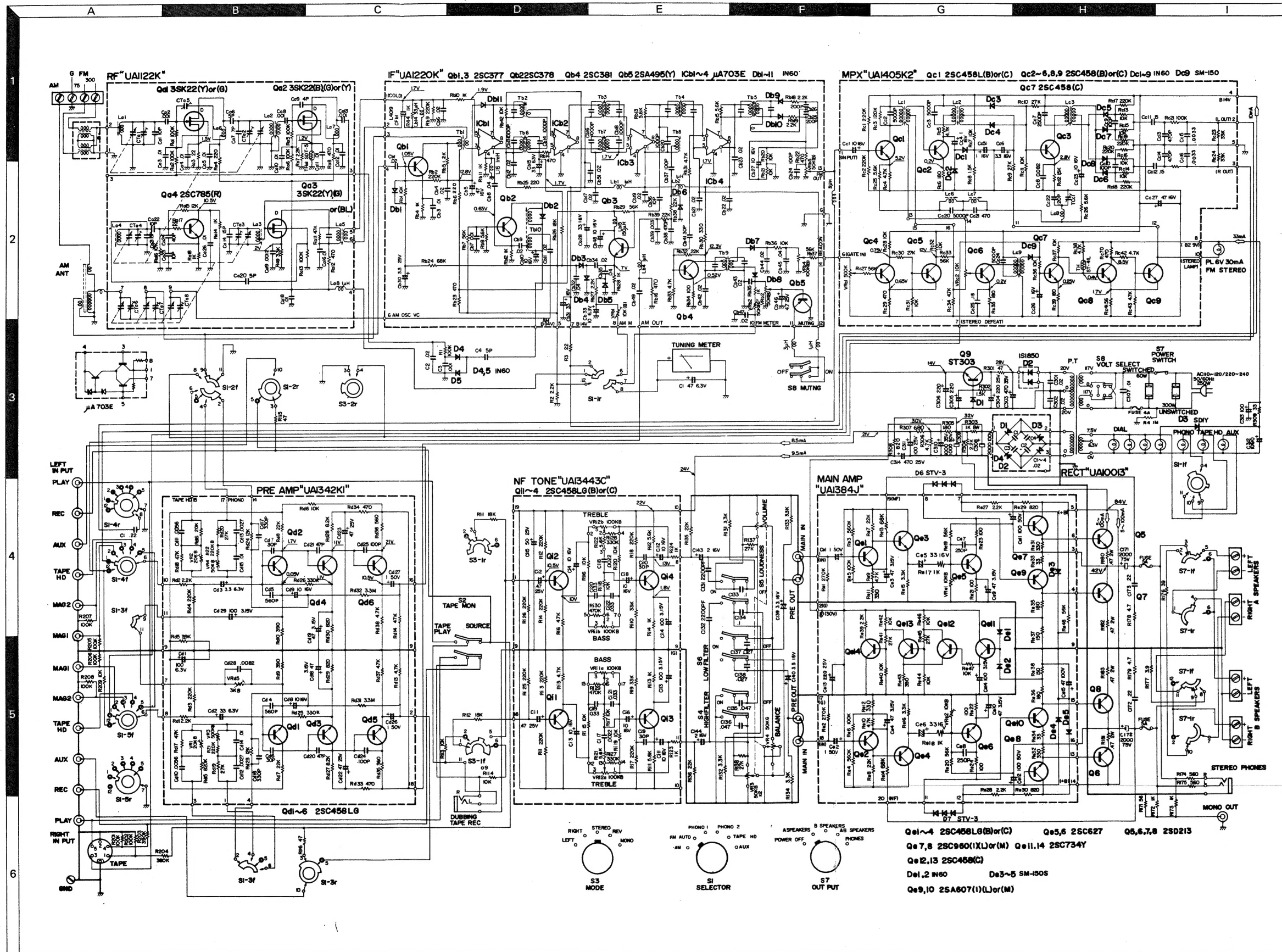
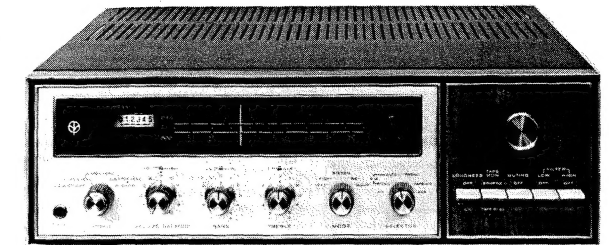
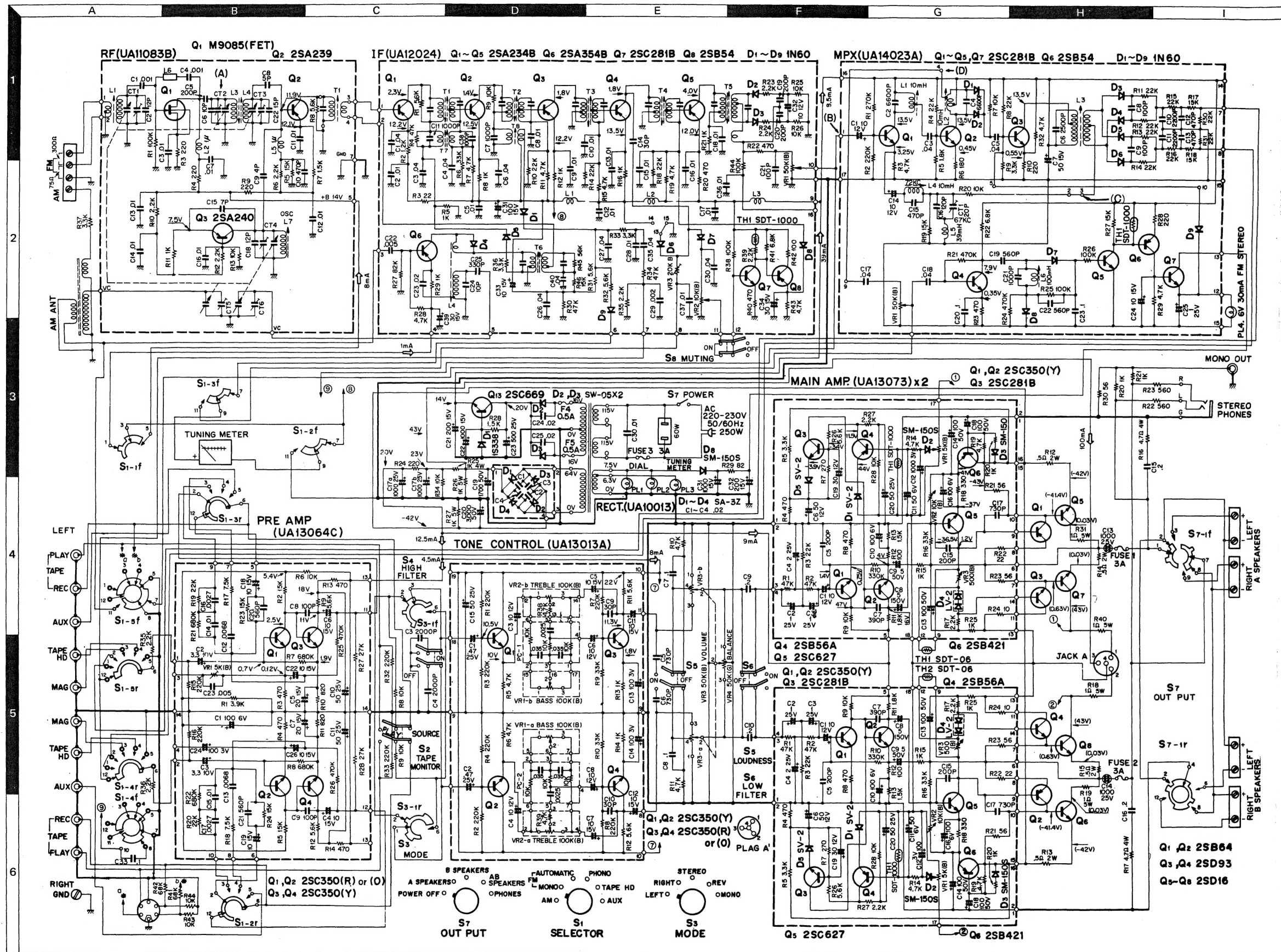


SPECIFICATIONS

AMPLIFIER SECTION	
OUTPUT POWER:	250 watts ± 1 dB at 4 ohms 210 watts ± 1 dB at 8 ohms 200 watts at 4 ohms 170 watts at 8 ohms
DYNAMIC POWER (IHF):	
CONTINUOUS POWER:	
EACH CHANNEL DRIVEN:	80 watts/80 watts at 4 ohms 60 watts/60 watts at 8 ohms 53 watts/53 watts at 8 ohms
BOTH CHANNELS DRIVEN:	
DISTORTION:	
HARMONIC DISTORTION:	Less than .5% at rated output
INTERMODULATION DISTORTION:	Less than .5% at rated output Less than .2% at -30dB rated output
FREQUENCY RESPONSE:	
MAIN INPUT:	8 Hz to 120,000 Hz ± 1.5 dB
AUX INPUT:	20 Hz to 30,000 Hz ± 1.5 dB
POWER BANDWIDTH (IHF):	15 Hz to 30,000 Hz
CHANNEL SEPARATION:	Better than 50 dB
INPUT SENSITIVITY & INPUT IMPEDANCE:	
(For rated output):	MAG 1.2... 2mV (50K ohms) TAPE HD... 2.2 mV (100K ohms) AUX... 160 mV (100K ohms) TAPE PLAY... (Pin Jack) 160mV (100K ohms) (R.P. Connector) 160 mV (100K ohms)
RECORDING OUTPUT:	MAIN IN... 100 mV (100K ohms) (Pin Jack) 160 mV (Dubbing) 160 mV (R.P. Connector) 32 mV 180 mV (P.P. 1,000 Hz)
MAXIMUM INPUT SIGNAL:	(at MAG Input)
HUM AND NOISE:	(Below rated output)
	PHONO 1.2 (MAG) 65 dB TAPE HD 63 dB AUX 75 dB TAPE PLAY 75 dB Noise at minimum volume control... Less than 28 at 5 ohms (output impedance of speaker is .288 ohms.)
DAMPING FACTOR:	28 at 5 ohms
SPEAKER IMPEDANCE:	4, 8 and 16 ohms
BASS CONTROL:	± 10 dB at 100 Hz
TREBLE CONTROL:	± 10 dB at 10,000 Hz
HIGH FILTER:	3,000 Hz Cutoff
LOW FILTER:	200 Hz Cutoff
LOUDNESS CONTROL:	± 10 dB at 100 Hz, ± 5 dB at 10 kHz (at -30 dB)
OUTPUT SWITCH:	Power Off, A speakers, B speakers, A-B speakers and Phones
MODE SWITCH:	Left, Right, Stereo, Rev. & Mono
SELECTOR SWITCH:	AM, FM, PHONO, TAPE HD & AUX
KEYBOARD TYPE SWITCHES:	Loudness, Tape Monitor, Muting, Low Filter and High Filter
OUTPUTS:	2 pairs of stereo speaker terminals, Center channel output (low level), Pre-amp. output, Tape recording output, Head phone jack, AC outlet.
TUNER SECTION	
FM:	
ANTENNA IMPEDANCE:	300 ohms balanced 75 ohms unbalanced
SENSITIVITY (IHF):	1.7 μ V
HARMONIC DISTORTION:	Less than .5% 400 Hz 100% Mod.
SIGNAL TO NOISE RATIO:	Better than 65 dB
CAPTURE RATIO:	1.0 dB
IMAGE REJECTION:	Better than 100 dB
HARMONIC SPURIOUS RESPONSE:	Better than 100 dB
IF REJECTION:	Better than 100 dB
SELECTIVITY (Alt. channel):	45 dB
FM IF STAGE:	4 IC's (Integrated Circuits)
FM FRONT-END:	3 FET's, 4 gang tuning condenser
INTER STATION MUTING:	Keyboard switch
FM SPURIOUS RADIATION:	Less than 34 dB
AM:	
SENSITIVITY (IHF):	15 μ V at 1,000 kHz
IMAGE REJECTION:	90 dB at 1,000 kHz
SELECTIVITY:	Better than 25 dB
SPECIAL FEATURES:	
IC's & Mechanical Filter IF Circuit, 3 FET's 4 Gang Tuning Condenser Super Sensitive Front-End Inter Station Muting Circuit, Heavy Fly-Wheel Tuning Dial, New Large Tuning Dial, New Large Tuning Meter, 300 ohms and 75 ohms Antenna Inputs, Unique Keyboard Type Control Switches, Power Transistor Protection Circuit, Separate Pre-amp. Output and Main amp. Input, Illuminated Smoked Glass Dial, Low Filter and High Filter, Tape Monitor, Stereo Phone Jack, 2 Set of Speaker Jacks, 8 Pin Front Panel.	
SEMICONDUCTORS:	4 IC's, 3 FET's 44 Transistors, 33 Diodes, 2 Thermistors.
POWER CONSUMPTION:	250 watts at full power. 34 watts at no signal.
DIMENSIONS:	16 1/2" W, 5 1/2" H, 12 1/2" D.
WEIGHT:	28.5 Lbs Net weight 33.0 Lbs Shipping weight





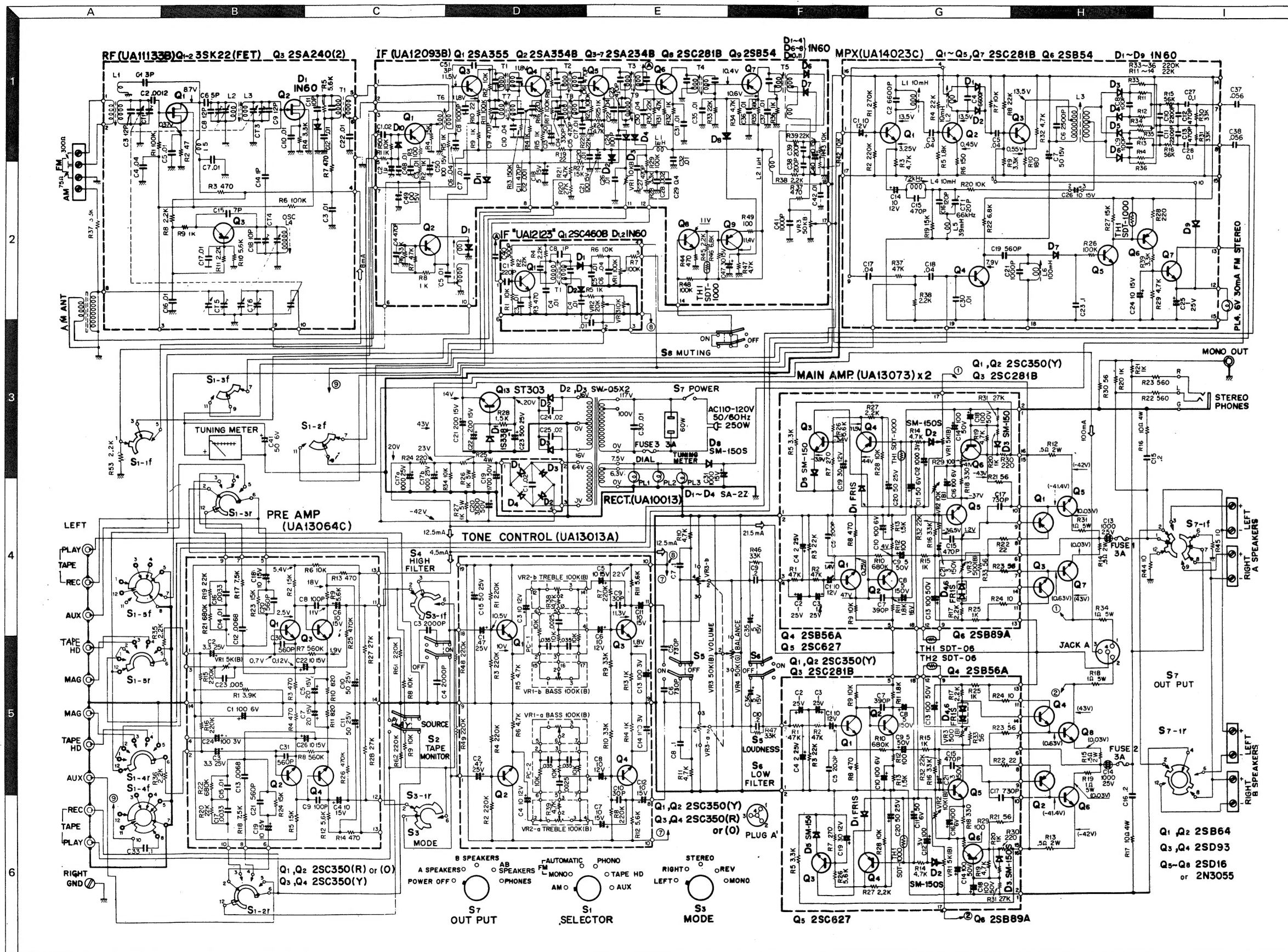
SPECIFICATIONS

AMPLIFIER SECTION:

TOTAL MUSIC POWER:	130 watts (IHF Standard 4 ohms) 120 watts (IHF Standard 8 ohms)
CONTINUOUS POWER:	50 watts per channel (0.5% T.H.D.)
FREQUENCY RESPONSE:	20 Hz — 50,000 Hz (± 2 dB)
POWER BANDWIDTH:	20 Hz — 30,000 Hz ($- 3$ dB)
SIGNAL TO NOISE RATIO: (below rated output)	Phono - 63 dB, Tape HD - 63 dB, Tape Play - 70 dB, AUX - 70 dB
INPUT SENSITIVITY:	Phono 2 mV, Tape HD 2.5 mV, Tape Play 150 mV, AUX 150 mV 100 mV P - P (1,000 Hz)
MAXIMUM INPUT SIGNAL: (Mag Input)	46 (16 ohms), 23 (8 ohms)
DAMPING FACTOR:	80 Hz roll-off
LOW FILTER:	6,000 Hz roll-off
HIGH FILTER:	± 10 dB (at 50 Hz)
BASS CONTROL:	± 10 dB (at 10,000 Hz)
TREBLE CONTROL:	Within 3 dB
VOLUME CONTROL TRACKING ERROR:	Yes
CENTER CHANNEL OUTPUT:	4, 8 or 16 ohms
SPEAKER IMPEDANCE:	

TUNER SECTION:

USABLE SENSITIVITY:	FM: 2 microvolts (IHF Standard) AM: 10 microvolts (IHF Standard)
FM FREQUENCY RESPONSE:	20 — 20,000 Hz ± 2 dB
FM HARMONIC DISTORTION:	0.6% (1,000 Hz 100% mod.)
FM SIGNAL TO NOISE RATIO:	60 dB
FM CAPTURE RATIO:	2.5 dB
FM SELECTIVITY: (Alt. Channel)	45 dB
FM STEREO SEPARATION:	38 dB (at 400 Hz)
FM IMAGE REJECTION:	66 dB
FM SPURIOUS RESPONSE:	80 dB
FM IF STAGES:	5 stages
FM STEREO MONO AUTO. SWITCHING:	Yes
FM INTERSTATION MUTING:	Yes
AM-FM FRONT END:	FET 4-gang (FM), 3-gang (AM)
POWER CONSUMPTION:	AC 110 — 120 or 220 — 230 volts, 250 watts (at full power) Amps sold in Europe operate only on 220 — 230 volts 50/60 Hz
DIMENSIONS:	16 $\frac{1}{2}$ " W, 5 $\frac{1}{4}$ " H, 14 $\frac{1}{4}$ " D
WEIGHT:	31 Lbs.



Ex. 1. One PCB ass'y
Refer to the KT-2001's schematic diagram. (X05-0006-11)

NO.	ALIGN	TEST EQUIPMENTS		TUNER SETTING	OUTPUT INDICATOR	ADJUSTMENT POINTS	REMARKS
		CONNECTION	SETTING				
FM SECTION							
1	IF	Ⓐ and Ⓑ	95 MHz (60 dB) 1 kHz (Mod) 75 kHz (Dev)	95 MHz	SSVM & scope to REC jack	Ta3, 5~7	Maximum deflection
2		—	—	—	T meter	Ta8 (primary)	Make the pointer position in the center of the meter
3		Ⓐ and Ⓑ	95 MHz (60 dB) 1 kHz (Mod) 75 kHz (Dev)	95 MHz	SSVM, scope & distortion meter to REC jack (L)	Ta8 (secondary)	Maximum deflection and minimum distortion
4	OUTPUT	ditto	95 MHz 1 kHz (Mod) 75 kHz (Dev) 60 dB (Input)	95 MHz	ditto	VRa2	Output voltage is 1V*
5	TRACKING	ditto	90 MHz 1 kHz (Mod) 75 kHz (Dev)	90 MHz	ditto	Ta1~4	Maximum deflection
6			108 MHz 1 kHz (Mod) 75 kHz (Dev)	108 MHz		CTa1~3	
7	SCA	AG to (B)	67 kHz	Non-station	SSVM & scope to (C)	Ta15	Minimum deflection
8	19 kHz 38 kHz	Ⓑ and Ⓒ	98 MHz 1 kHz (Mod) 68.25 kHz (Dev) Phase : Reverse 60 dB (Input)	95 MHz	SSVM & scope to REC jack (L)	Ta13, 14	Maximum deflection
9	SEPARATION	ditto	95 MHz 67.5 kHz (Dev.) 1 kHz (Mod.) 60 dB (Input) L or R (SELECTOR)	95 MHz	ditto	VRm1	Minimum deflection
10	BEACON	ditto	95 MHz 40 kHz (Dev.) 1 kHz (Mod.) 60 dB (Input)	95 MHz	Stereo Indicator	VRa4, 5	Indicator lights
11	DISTORTION	ditto	95 MHz 1 kHz (Mod) 68.25 kHz (Dev) L (Select) 60 dB (Input)	95 MHz	SSVM, scope & distortion meter to REC jack (L)	Ta3, 5~7	Minimum distortion
AM SECTION							
1	IF	Ⓑ and Ⓓ	1000 kHz 400 Hz, 30% (Mod) 100 dB	1000 kHz	SSVM & scope to REC jack (L)	Ta10~12	Maximum deflection
2	TRACKING	ditto	600 kHz 400 Hz, 30% (Mod) 100 dB	600 kHz	ditto	Ta9 Bar antenna	ditto
3			1400 kHz 400 Hz, 30% (Mod)	1400 kHz		CTa4, 5	
4	S METER	ditto	1000 kHz (400 Hz, 30% Mod.)	1000 kHz	S meter	VRa3	The meter deflection at 4.5

* Some products don't have the output-level adjusting potentiometer.

Ex. 2. more 2 pieces of PCB ass'y
Refer to KT-5000's schematic diagram. (X01-0025-11, X02-0020-11 and X04-0003-13).

NO.	ALIGNMENT	TEST EQUIPMENTS		TUNER SETTING	OUTPUT INDICATOR	ADJUSTMENT POINTS	REMARKS
		CONNECTION	SETTING				
FM SECTION							
1	IF	Ⓐ	95 MHz (60 dB) 1 kHz (Mod) 75 kHz (Dev)	95 MHz	Ⓑ	Ta1, LB2, 3, 5	Maximum deflection
2	T METER	—	—	—	T meter	Lb8 (Bottom)	Make the pointer position in the center of meter
3	DISCRIMINATOR	Ⓐ	95 MHz (60 dB) 1 kHz (Mod) 75 kHz (Dev)	95 MHz	Ⓑ	Lb8 (Top)	Maximum deflection and minimum distortion
4	TRACKING	ditto	90 MHz 1 kHz (Mod) 75 kHz (Dev)	90 MHz	ditto	La1 ~ 4	Maximum deflection
5		ditto	108 MHz 1 kHz (Mod) 75 kHz (Dev)	108 MHz	ditto	CTa1 ~ 5	ditto
6	OUTPUT	ditto	85 MHz (60 dB) 1 kHz (Mod) 75 kHz (Dev)	85 MHz	ditto	VRb1	Output is 1V.
7	S METER	ditto	ditto	ditto	S meter	Lb7 VRb2	The meter deflection 4.5.
8	SCA	Connect the base of Qb6 to GND through 470 pF and AG to #1 of MPX (X04-0010-10)	AG 67 kHz (f) 0.5V (Output)	—	Connect the oscilloscope and VTVM to the secondary center of L3	Lc3	Minimum deflection
9	BEACON (SUB)	Ⓒ	95 MHz (60 dB) 68.25 kHz (Dev) 1 kHz (Mod) L + R	95 MHz	Stereo indicator	VRc1	Indicator lights
10	SUB CARRIER	ditto	95 MHz (60 dB) 68.25 kHz (Dev) 1 kHz (Mod) L — R	ditto	Ⓑ	Lc1, 4	Maximum deflection
11	BEACON (19 kHz)	ditto	95 MHz (60 dB) 40 kHz (Dev) 1 kHz (Mod) L — R	ditto	Stereo indicator	VRc1	At the point of becoming light on
12	BEACON (INPUT)	ditto	95 MHz (16.3 dB) 68.25 kHz (Dev) 1 kHz (Mod) L — R	ditto	ditto	VRb4	ditto
13	SEPARATION	ditto	95 MHz (60 dB) 68.25 kHz (Dev) 1 kHz (Mod) L or R	ditto	Ⓑ	VRm1	Minimum deflection
14	MUTING	Ⓐ	95 MHz (60 dB) 75 kHz (Mod) 1 kHz (Mod)	ditto MUTING: ON	ditto	VRb3	Under the antenna input level is 9.5 dB output level becomes 40 dB lower

When adjusting AM circuit, refer to AM SECTION in EX.1.

* Each model has its own value, refer to the service manual.